Castle Electrodes RB15 Manganese Dioxide Reference Electrode Datasheet

- **Model: RB15**
- **Manganese dioxide**
- **Interface: >250mm^2 3 dimensional**

General Description

The Castle RB15 Reference Electrode comprises a manganese oxide core containing an alkaline environment. This is contained in a blue nylatron casing with a cementitious mortar cap. The electrode is conditioned to provide a very stable reference electrical potential. The mortar cap ensures good contact with the parent concrete and eliminates errors due to ion diffusion.

Castle RB15 manganese dioxide reference electrodes are connected to a data logger to monitor readings which may be manually downloaded or transmitted remotely via modem to an external 'off site' office. Measurements may also be performed by use of a handheld volt meter with high input impedance (>10 M Ω).

The RB15 reference electrode functions as a solid state electrode (no internal gels) and does not require aggressive materials, for example chloride ions, to function.

Specifications

Dimensions:

Nominally 78 mm long x 15mm diameter

Cable:

Standard cable is XLPE/XLPE blue/blue 2.5mm2.

Expected life:

50 year design life.

Storage:

Dry and constant temperature (between 5° and 25°C).

Calibration:

Each electrode is calibrated before delivery to site and a calibration certificate issued. It is not feasible to check this calibration on site.

Packaging:

- Supplied in minimum 10 unit packs.